

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : **VICTOR CO OF JAPAN LTD**

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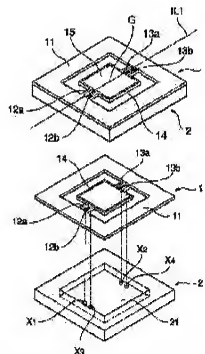
(72)Inventor : **OKUMURA MIKIO**

(54) OPTICAL DEFLECTOR AND VIDEO DISPLAY DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To enable the optical deflector of the video display device to obtain a large angle of deflection, deflect incident light fast, and increase in reliability.

SOLUTION: Support beam parts 12a and 12b, and 13a and 13b are arranged in parallel symmetrically about a virtual line IL1 passing the center G of gravity, and laser light emitting elements X1 and X2, and X3 and X4 are provided at the positions corresponding to the beams of the support beam parts 12a and 12b, and 13a and 13b respectively and driven so as to irradiate alternate combinations of the support beam parts (12a and 13a) and support beam parts (12b and 13b) divided by the virtual line IL1 with laser light. Further, the size of a movable mirror part 14 and the position relation of the support beam parts 12a and 12b, and 13a and 13b are optimized and the elements are driven at a natural oscillation frequency to obtain a large angle of deflection and fast operation.



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